

Application Serial No.: 09/676,998  
Attorney Docket No.: 0190230

**List of Claims:**

**Claim 1 (Previously Presented):** A digital camera comprising:

a processor having a memory;

a substrate having at least one pixel disposed thereon for absorbing light from an object, the at least one pixel being electrically coupled to the processor for storing a digital image of the object in the memory of the processor; and

an electromechanical shutter mechanism comprising at least one individual shutter hingedly attached with respect to said substrate and moveably associated with the at least one pixel and having a first position and a second position that are selected according to commands from the processor of the digital camera, the first position exposing the at least one pixel to the light from the object and the second position preventing the exposure of the at least one pixel to the light.

**Claim 2 (Previously Presented):** The digital camera of claim 1 wherein the substrate has a plurality of pixels disposed thereon and the electromechanical shutter mechanism includes a plurality of individual shutters that are each associated with a corresponding subset of the plurality of pixels.

**Claims 3-4 (Cancelled)**

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**Claim 5 (Original):** The digital camera of claim 2 wherein the corresponding subset of the plurality of pixels comprises a row of pixels.

**Claim 6 (Original):** The digital camera of claim 5 wherein the individual shutters of the electromechanical shutter mechanism each comprise an elongate shutter that extends along the row of pixels, the elongate shutter having hinges coupled at least at each end such that the elongate shutter moves between the first position and the second position with respect to the row of pixels, the first position being perpendicular to the substrate and the second position being slightly off perpendicular so that that the individual shutter creates a shadow on the row of pixels.

**Claims 7-10 (Cancelled)**

**Claim 11(Previously Presented):** A method for an image capturing device to control pixel exposure of a plurality of pixels on a substrate, the image capturing device including a shutter mechanism that provides a first shutter setting and a second shutter setting, the method comprising:

arranging the plurality of pixels to operate with the shutter mechanism such that the first shutter setting provides the plurality of pixels with exposure to a light source and the second shutter setting prevents the exposure of the plurality of pixels to the light source;

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constructing the shutter mechanism to be hingedly attached with respect to the substrate;

exposing the plurality of pixels to the light source for a predetermined period of time;

measuring a saturation point for each of the plurality of pixels;

capturing, with each of the plurality of pixels, a data representation of a portion of the light source;

recognizing that the saturation point for at least one of the plurality of pixels has been reached; and

positioning the shutter mechanism in the second shutter setting, thereby discontinuing the exposure of the plurality of pixels of the light source.

**Claim 12 (Cancelled)**

**Claim 13 (Original):** The method of claim 11 wherein said positioning the shutter mechanism in the second shutter setting comprises angling at least one elongate shutter from a first position that is perpendicular to the substrate to a second position that shadows the plurality of pixels from the light source.

**Claim 14 (Original):** The method of claim 13 wherein the at least one elongate shutter comprises a plurality of elongate shutters that each correspond to a row of pixels

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from the plurality of pixels, the plurality of elongate shutters shadowing the respective corresponding row of pixels when the shutter mechanism is in the second shutter setting such that the plurality of pixels is shadowed.

**Claim 15 (Original):** The method of claim 13 wherein each of the at least one elongate shutter is coupled to the substrate by at least two hinges, respectively, the at least two hinges of the at least one elongate shutter being moved at an angle such that the at least one elongate shutter simultaneously shadows the plurality of pixels when the at least one elongate shutter is moved from the first position to the second position.

**Claim 16 (Original):** The method of claim 15 wherein the at least one elongate shutter comprises a plurality of elongate shutters, each of the plurality of elongate shutters corresponding to a row of pixels from among the plurality of pixels, the plurality of elongate shutters each having at least two hinges coupled between a bottom edge of the elongate shutter and the substrate.

**Claims 17-18 (Cancelled)**